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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO K 01/11/00 UKAI 423-54 09/462,633 **EXAMINER** HM22/0810 NIXON & VANDERHYE PULLIAM, A 1100 NORTH GLEBE ROAD ART UNIT PAPER NUMBER 8TH FLOOR 1615 ARLINGTON VA 22201-4714 DATE MAILED: 08/10/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

·		Application No.	Applicant(s)
•	•	09/462,633	UKAI ET AL.
	Office Action Summary	Examiner	Art Unit
		Amy E Pulliam	1615
Period fo	• •		·
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing dispatent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ly within the statutory minimul will apply and will expire SIX (e, cause the application to be	may a reply be timely filed n of thirty (30) days will be considered timely. 6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 30	July 2001 .	
2a) <u></u> ☐	This action is FINAL. 2b)⊠ T	his action is non-final	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Dispositi	on of Claims		
4) Claim(s) 1-15 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7)	Claim(s) is/are objected to.		
8) 🗌	Claim(s) are subject to restriction and/o	or election requiremen	nt.
Application	on Papers		
9) 🔲 🗆	The specification is objected to by the Examine	er.	
10) 🔲 1	he drawing(s) filed on is/are: a)□ acce	pted or b)⊡ objected t	by the Examiner.
	Applicant may not request that any objection to the	e drawing(s) be held in	abeyance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
	If approved, corrected drawings are required in re	ply to this Office action.	
12) The oath or declaration is objected to by the Examiner.			
Priority u	nder 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)[☑All b) Some * c) None of:		
	1.⊠ Certified copies of the priority document	s have been received	'
	2. Certified copies of the priority document	s have been received	d in Application No
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
	cknowledgment is made of a claim for domest		
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
H لـــارد ا Attachment		ic priority under 35 U	.5.C. 99 120 and/or 121.
1) 🔀 Notice 2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Not	rview Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) er:
S. Patent and Tra TO-326 (Rev		ction Summary	Part of Paper No. 9

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DETAILED ACTION

Receipt is acknowledged of the Request for CPA, received 7/30/01.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 97/25066 to Depui *et al.* Depui *et al.* teach of an oral pharmaceutical formulation comprising a proton pump inhibitor, combined with an alkaline substance, protected by coatings. Depui *et al.* aso teach that examples of proton pump inhibitors are pantaprazole, lansoprazole, and omeprazole (p 8-11). Depui *et al.* also teach that acceptable alkaline substances can be sodium, potassium, calcium, and magnesium salts of phosphoric and carbonic acid, among others (p 15, I 1-5). Depui *et al.* also teach that the core formulation will be coated with a separating layer, an enteric coating, and can have additional coatings. This disclosure anticipates applicant's claims to a pharmaceutical composition comprising a benzimidizole and an additive (alkaline agent), with an intermediate layer, an enteric coating, and optional additional coatings.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Depui et al. as applied above. Depui et al. does not specifically teach all of the possible choices for component B in applicant's claimed composition. However, Depui et al. does teach the combination of a benzimidazole with an alkaline agent, such as sodium, potassium, calcium, and magnesium salts of phosphoric and carbonic acid (p 15, I 1-5). One of ordinary skill in the art would have been motivated to combine any well known alkaline substance with a benzimidazole, based on the teachings of Depui et al.. in order to form a formulation for treatment of gastrointestinal disorders. Therefore, this invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Depui et al. as applied above, and further in view of US Patent 6,030,988 to Gilis et al.. Depui et al. is described above as teaching a formulation comprising a benzimidazole, an alkaline agent, an intermediate coating, an enteric coating and optional additional coatings. Depui et al. does not teach rabeprazole as a well known benzimidazole. Gilis et al. is relied upon for the teaching that omeprazole, rabeprazole, and lansoprazole are

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all well known proton pump inhibitors (c 5, I 15-18). Gilis *et al.* also teaches that crosslinked povidone is well known tablet excipient (c 6, I 56-60). One of ordinary skill in the art would have used any well known proton pump inhibitor in the composition taught by Depui *et al.*, as the drugs are all from the same family. The expected result would be a successful pharmaceutical formulation, regardless of which proton pump inhibitor is used. Therefore, this invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Claims 6, and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Depui *et al.* in view of Gilis *et al.* as applied above, and further in view of US Patent 5,708,017 to Dave *et al.*. Depui *et al.* in view of Gilis *et al.* are described above as teaching a formulation comprising a benzimidazole, an alkaline agent, an intermediate coating, an enteric coating and optional additional coatings. Depui *et al.* in view of Gilis *et al.* do not teach that the composition have a moisture resistant coating. Dave *et al.* teach of an oral pharmaceutical composition containing a proton pump inhibitor. Further, Dave *et al.* teach the proton pump inhibitors are known in the pharmaceutical art to be very acid labile and therefore, must be enteric coated. Dave *et al.* also teach that this enteric coating causes a great problem with moisture sensitivity. It is the position of the examiner that one of ordinary skill in the art would have been motivated to make one of the additional coatings allowed in the Depui composition a moisuture resistant coating base on the teachings of Dave *et al.*. The expected result would be a successful enteric coated formulation which is resistant to moisture. Therefore, this

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invention as a whole would have been prima facie obvious to one of ordinary skill in the

art at the time the invention was made.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amy E Pulliam whose telephone number is (703) 308-

4710. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K Page can be reached on (703) 308-2927. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

305-3592 for regular communications and (703) 305-3592 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1234.

aep

August 3, 2001